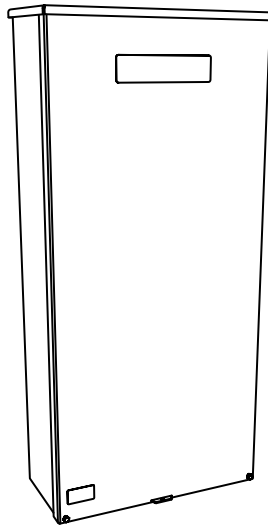




Owner's Manual
For
Automatic Transfer Switch

200 Amp, Single Phase, 240 VAC, Service Rated, 20–40 Circuit Load Center With Pass-Through Lugs

Model Number
RXGW20SHA3



SERIAL NUMBER: _____

DATE PURCHASED: _____

WWW.GENERAC.COM
888-436-3722

Para español , visita: <http://www.generac.com/service-support/product-support-lookup>

Pour le français, visiter : <http://www.generac.com/service-support/product-support-lookup>

SAVE THIS MANUAL FOR FUTURE REFERENCE

 **WARNING**

CANCER AND REPRODUCTIVE HARM

www.P65Warnings.ca.gov

(000393a)

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Section 1: Safety Rules & General Information

Introduction

Thank you for purchasing a Generac Power Systems Inc. product. This unit has been designed to provide high performance, efficient operation, and years of use when maintained correctly.

The information in this manual is accurate based on products produced at the time of publication. The manufacturer reserves the right to make technical updates, corrections, and product revisions at any time without notice.

Read This Manual Thoroughly



Consult Manual. Read and understand manual completely before using product. Failure to completely understand manual and product could result in death or serious injury. (000100a)

If any section of this manual is not understood, contact the nearest Independent Authorized Service Dealer (IASD) or Generac Customer Service at 1-888-436-3722 (1-888-GENERAC), or visit www.generac.com for starting, operating, and servicing procedures. The owner is responsible for correct maintenance and safe use of the unit.

This manual must be used in conjunction with all other supporting product documentation supplied with the product.

SAVE THESE INSTRUCTIONS for future reference. This manual contains important instructions that must be followed during placement, operation, and maintenance of the unit and its components. Always supply this manual to any individual that will use this unit, and instruct them on how to correctly start, operate, and stop the unit in case of emergency.

Safety Rules

The manufacturer cannot anticipate every possible circumstance that might involve a hazard. The alerts in this manual, and on tags and decals affixed to the unit, are not all inclusive. If using a procedure, work method, or operating technique that the manufacturer does not specifically recommend, verify that it is safe for others and does not render the equipment unsafe.

Throughout this publication, and on tags and decals affixed to the unit, DANGER, WARNING, CAUTION, and NOTE blocks are used to alert personnel to special instructions about a particular operation that may be hazardous if performed incorrectly or carelessly. Observe them carefully. Alert definitions are as follows:

DANGER

Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

(000001)

WARNING

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

(000002)

CAUTION

Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

(000003)

NOTE: Notes contain additional information important to a procedure and will be found within the regular text of this manual.

These safety alerts cannot eliminate the hazards that they indicate. Common sense and strict compliance with the special instructions while performing the action or service are essential to preventing accidents.

General Hazards

DANGER

Electrical backfeed. Use only approved switchgear to isolate generator from the normal power source. Failure to do so will result in death, serious injury, and equipment damage.

(000237)



DANGER

Electrocution. Do not wear jewelry while working on this equipment. Doing so will result in death or serious injury.

(000188)



DANGER

Electrocution. Only authorized personnel should access transfer switch interior. Transfer switch doors should be kept closed and locked. Failure to do so will result in death or serious injury. (000213)

⚠ DANGER

Automatic start-up. Disconnect utility power and render unit inoperable before working on unit. Failure to do so will result in death or serious injury.

(000191)



⚠ DANGER

Electrocution. In the event of electrical accident, immediately shut power OFF. Use non-conductive implements to free victim from live conductor. Apply first aid and get medical help. Failure to do so will result in death or serious injury.

(000145)



⚠ WARNING

Loss of life. This product is not intended to be used in a critical life support application. Failure to adhere to this warning could result in death or serious injury.

(000209b)

⚠ WARNING

Equipment damage. This unit is not intended for use as a prime power source. It is intended for use as an intermediate power supply in the event of temporary power outage only. Doing so could result in death, serious injury, and equipment damage.

(000247a)

IMPORTANT NOTE: See individual unit specifications for required maintenance and run times pertaining to use.

- Competent, qualified personnel should install, operate, and service this equipment. Strictly comply to local, state, and national electrical and building codes. When using this equipment, comply with regulations established by the National Electrical Code (NEC), CSA Standard; the Occupational Safety and Health Administration (OSHA), or the local agency for workplace health and safety.
- If working on this equipment while standing on metal or concrete, place insulative mats over a dry wood platform. Work on this equipment only while standing on such insulative mats.
- Never work on this equipment while physically or mentally fatigued.
- Any voltage measurements should be performed with a meter that meets UL3111 safety standards, and meets or exceeds overvoltage class CAT III.

Electrical Hazards

⚠ DANGER



Electrocution. High voltage is present at transfer switch and terminals. Contact with live terminals will result in death or serious injury.

(000129)

⚠ DANGER



Electrocution. Water contact with a power source, if not avoided, will result in death or serious injury.

(000104)

⚠ DANGER



Electrocution. In the event of electrical accident, immediately shut power OFF. Use non-conductive implements to free victim from live conductor. Apply first aid and get medical help. Failure to do so will result in death or serious injury.

(000145)

⚠ DANGER

Electrical backfeed. Use only approved switchgear to isolate generator from the normal power source. Failure to do so will result in death, serious injury, and equipment damage.

(000237)

⚠ DANGER



Electrocution, equipment and property damage. Handle transfer switches carefully when installing. Never install a damaged transfer switch. Doing so could result in death or serious injury, equipment and property damage.

(000195)

⚠ DANGER



Electrocution. Turn utility supply OFF before working on utility connections of the transfer switch. Failure to do so will result in death or serious injury.

(000123)

⚠ DANGER



Electrocution. Do not disable or modify the connection box door safety switch. Doing so will result in death or serious injury.

(000157)

⚠ DANGER

Automatic start-up. Disconnect utility power and render unit inoperable before working on unit. Failure to do so will result in death or serious injury.

(000191)

⚠ DANGER

Equipment malfunction. Installing a dirty or damaged transfer switch will cause equipment malfunction and will result in death or serious injury.

(000119)

⚠ WARNING

Electric shock. Only a trained and licensed electrician should perform wiring and connections to unit. Failure to follow proper installation requirements could result in death, serious injury, and equipment or property damage.

(000155a)

⚠ CAUTION

Equipment damage. Verify all conductors are tightened to the factory specified torque value. Failure to do so could result in damage to the switch base.

(000120)

⚠ CAUTION

Equipment damage. Perform functional tests in the exact order they are presented in the manual. Failure to do so could result in equipment damage.

(000121)

⚠ CAUTION

Equipment damage. Exceeding rated voltage and current will damage the auxiliary contacts. Verify that voltage and current are within specification before energizing this equipment.

(000134a)

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Section 2: Installation

Introduction to Installation

This equipment has been wired and tested at the factory. Installing the transfer switch includes the following procedures:

- Mounting the enclosure.
- Connecting power source and load leads.
- Connecting generator start and sensing circuit.
- Connecting any auxiliary contact (if needed).
- Testing functions.

Mounting the Enclosure

⚠ DANGER

Equipment malfunction. Installing a dirty or damaged transfer switch will cause equipment malfunction and will result in death or serious injury.

(000119)

Mounting dimensions for the transfer switch enclosure are in this manual. Enclosures are typically wall-mounted. See [Drawings and Diagrams](#).

This transfer switch is mounted in a UL type 3R enclosure. It can be mounted outside or inside and should be based on the layout of installation, convenience, and proximity to the utility supply and load center.

Install transfer switch as close as possible to electrical loads that will be connected to it. Mount transfer switch vertically to a rigid supporting structure. Level all mounting points to prevent transfer switch distortion. Use washers behind mounting holes to level the unit if necessary.

Opening the Enclosure

See [Figure 2-1](#). First, remove outer cover (A):

1. Remove two thumb screws (B).
2. Slide slot (C) over retention tab.
3. Lower cover until clear of top flange (D), and pull away from enclosure.

Then, remove inner panel (E):

4. Loosen nut (F).
5. Grasp inner panel at two cutouts (G—left and right). Tilt inner panel as shown, passing nut through t-slot (H) in inner panel.
6. Lower inner panel until clear of two retention slots (J—left and right sides), and pull away from enclosure.

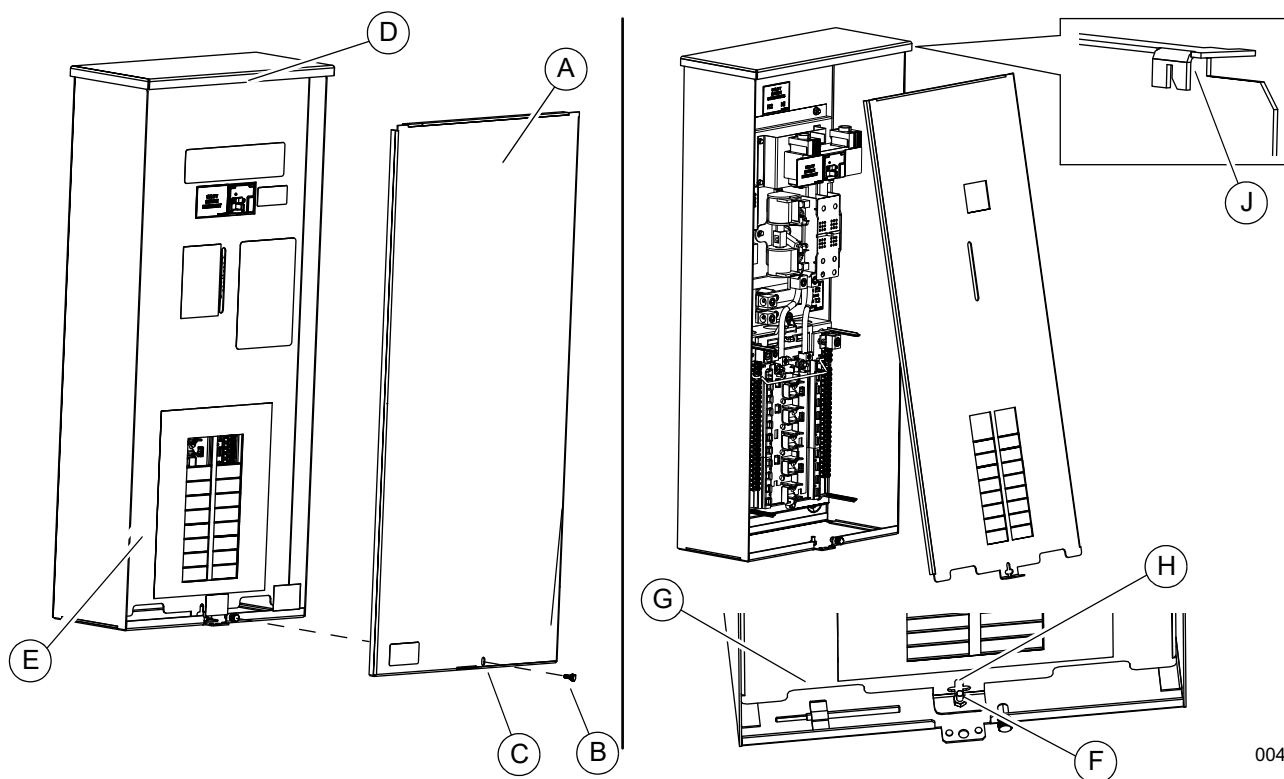


Figure 2-1. Open Enclosure

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Installing Breakers

See [Figure 2-2](#). Insert tab on each breaker (A) into the hook on the bus (B). Push breaker into bus until it snaps into place.

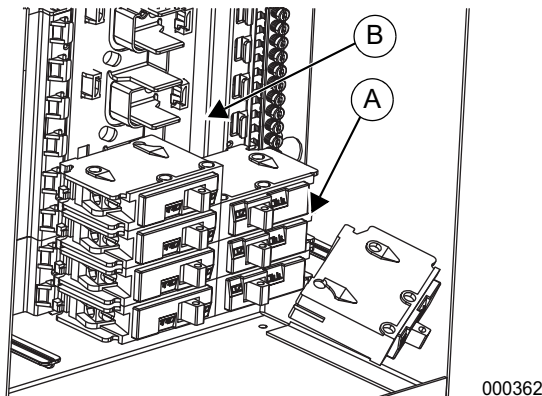


Figure 2-2. Install Breakers

NOTE: The following 1 in circuit breaker manufacturers are permitted to be installed: Siemens, Murray, Eaton BR, and Square D Homeline.

Installing Branch Circuit Conductors

1. Install correctly sized branch circuit conductors into transfer switch. Knockouts can be made in the field as needed.
2. Connect ungrounded branch circuit conductors (hot conductors) to a correctly sized circuit breaker approved for use with the transfer switch.
3. Terminate neutral conductor and equipment grounding conductor of the branch circuit at neutral/equipment ground terminal bars.
4. Size all conductors, raceways, conduits, and junction boxes, if required, to the applicable NEC code articles and follow NEC installation requirements for wiring method(s) selected.

NOTE: Multi-wire branch circuits must be installed in accordance with NEC Article 210.4.

Connecting Power Source and Generator Power Supply



⚠ DANGER

Electrocution. Turn utility and emergency power supplies to OFF before connecting power source and load lines. Failure to do so will result in death or serious injury. (000116)

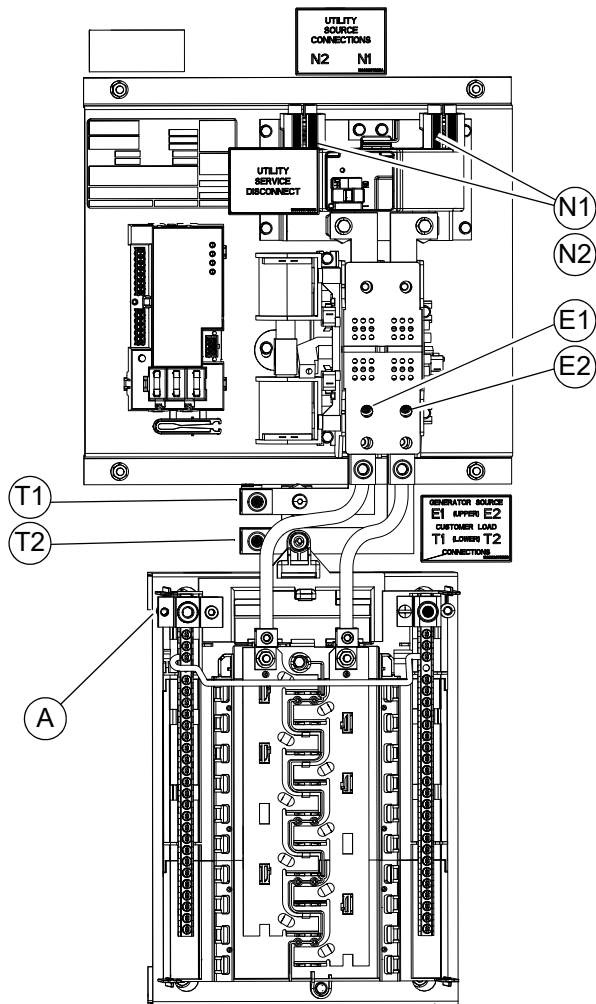
⚠ CAUTION

Equipment damage. Verify all conductors are tightened to the factory specified torque value. Failure to do so could result in damage to the switch base. (000120)

Installation and interconnection diagrams are provided in this manual.

NOTE: All installations must comply with national, state, and local codes. It is the responsibility of the installer to perform an installation that will pass final electrical inspection.

1. Connect utility supply at utility service disconnect circuit breaker terminals N1 and N2. Utility supply lugs are equipped with the 2017/2020 NEC required finger safe barriers. These barriers must remain in place after installation.
2. Connect utility neutral conductor to grounded terminal bar. Neutral/grounding conductor terminal bars are bonded together and to the transfer switch enclosure through the use of a green main bonding jumper screw.
3. Connect loads to integrated load center with customer-supplied circuit breakers.
4. See [Figure 2-1](#) and [Figure 2-3](#). Connect generator to generator terminals (E1 and E2) on the transfer mechanism.



004982a

Figure 2-3. Wiring Connections

5. Connect generator neutral wire to top neutral lug or side lugs on the panel board.
6. Connect neutral conductors to the lugs and terminals along the neutral/ground bars in panel board section of transfer switch.
7. Connect a maximum 200A subpanel feeder to lower T1 and T2 connections. Connect feeder neutral and equipment grounding conductors to the neutral/grounding terminal bar in the transfer switch.
8. Connect grounding electrode conductors to neutral/ground terminal bars in panel board portion of transfer switch.

NOTE: A neutral to equipment ground main bonding screw (A) is provided for use where transfer switch is installed as service equipment.

Conductor sizes must be adequate to handle maximum current they will be subjected to, based on the 75 °C column of tables, charts, etc. used to size conductors. Installation must fully comply with all applicable codes, standards, and regulations.

All power cables can enter enclosure through provided knockouts. Additional knockouts into transfer switch can be made in the field as needed. Conduit entry shall maintain correct wire bending spaces required by Tables 312.6 (A) and (B) in the NEC. Conduits should be arranged to provide separation between utility and generator supply conductors inside the enclosure.

NOTE: If aluminum conductors are used, apply corrosion inhibitor to conductors. After tightening terminal lugs, carefully wipe away any excess corrosion inhibitor.

Tighten terminal lugs to required torque values as noted on decal located on the inside of the door. After tightening terminal lugs, carefully wipe away any excess corrosion inhibitor.

Connecting Start Circuit Wires

Control system interconnections consist of N1, N2, and T1, and leads 23, 194, and 9 (ground). The connections are color coded on the load shed to match connections in the Generac genset. Generac Type TC-ER-JP tray cable includes power cables with all necessary color-coded control wiring. It is suitable for direct burial, overhead, and indoor wiring.

NOTE: See Article 336 in the 2017 and 2020 editions of the NEC for more information on the installation requirements for Type TC-ER-JP cable.

The generator control wiring is a Class 1 signaling circuit. See instruction manual of specific engine generator for wiring connection details. Recommended wire gauge sizes for this wiring depends on wire length, as recommended in the following chart:

Maximum Wire Length	Recommended Wire Size
1–115 ft (1–35 m)	No. 18 AWG
116–185 ft (36–56 m)	No. 16 AWG
186–295 ft (57–89 m)	No. 14 AWG
296–460 ft (90–140 m)	No. 12 AWG

Exception: Conductors of AC and DC circuits, rated 1000 volts nominal or less, shall be permitted to occupy the same equipment, cable, or conduit. All conductors shall have an insulation rating equal to at least the maximum circuit voltage applied to any conductor within the equipment, cable, or conduit. See NEC 300.3(C)(1).

Connecting SACM

See **Figure 2-4**. The SACM can control an air conditioner (24 VAC) directly.

Control of Air Conditioner Load

1. Route thermostat cable (from furnace/thermostat to outdoor air conditioner unit) to transfer switch.
2. Connect wire to the terminal strip terminals (A/C 1) on SACM as shown in **Figure 2-4**. These are normally closed contacts which open upon load shed conditions. Route thermostat wire away from high voltage wires.

3. If required, connect additional air conditioners to the terminal strip terminals (A/C 2-4).

Contact Ratings	
A/C 1-4	24 VAC, 1.0 amp max

NOTE: These instructions are for a typical air conditioner installation. Control of certain heat pumps and 2-stage air conditioners may require special connections or the use of SMMs to control the loads.

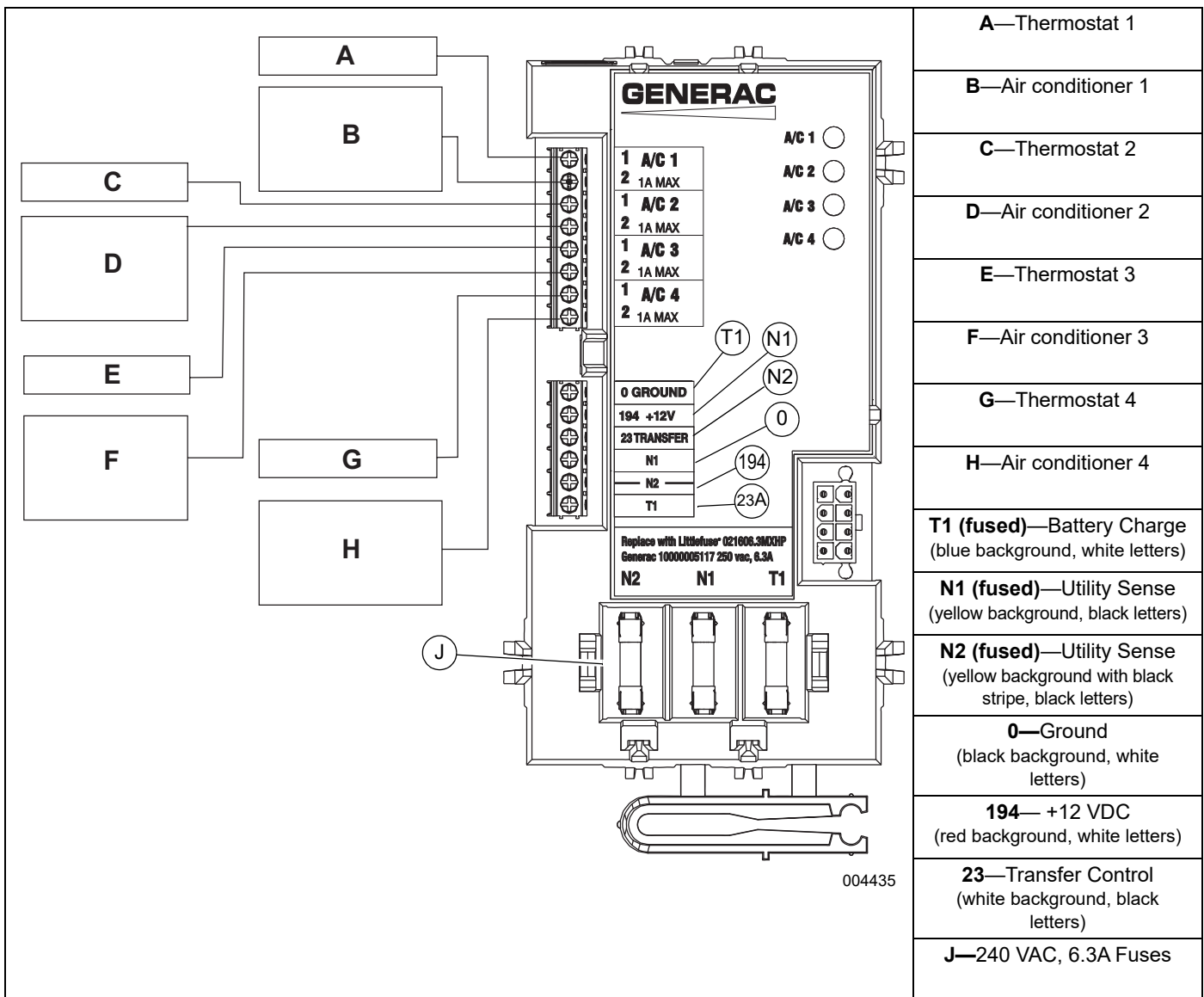


Figure 2-4. Typical SACM Connections

Auxiliary Contact



Equipment damage. Exceeding rated voltage and current will damage the auxiliary contacts. Verify that voltage and current are within specification before energizing this equipment. (000134a)

See **Figure 2-5**. If desired, there is one normally-closed auxiliary contact (A) on the transfer switch to operate customer accessories, remote advisory lights, or remote annunciator devices. A suitable power source must be connected to common terminal. If needed, an extra auxiliary contact can be added.

The auxiliary contact is normally closed when transfer switch is in utility mode. Contacts will open when transfer switch is in standby mode.

NOTE: Auxiliary contact is rated 10 amps at 125 or 250 volts AC, and 0.6 amps at 125 volts DC.

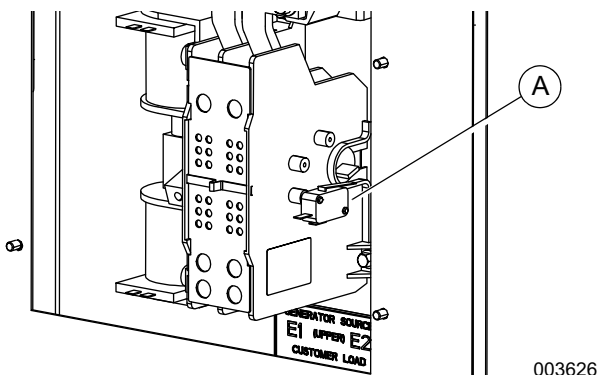
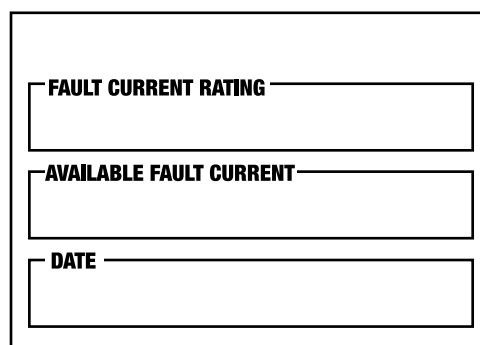


Figure 2-5. Auxiliary Contact

Fault Current Identification Label

See **Figure 2-6**. A Fault Current Identification Label is provided in the bag containing the unit owner’s manual and transfer switch manual operating handle. The 2017 NEC requires the short-circuit current rating of the transfer equipment, based on type of overcurrent protective device protecting transfer equipment, be field marked on the exterior of the transfer equipment. For NEC compliance, verify required short-circuit current rating of transfer switch before installation. The completed label provides the local Authority Having Jurisdiction (AHJ) with information they may require during inspection.

Apply label to the exterior of the transfer switch enclosure. Use a pen to fill in required information, and then cover label with the clear protective decal.



004496

Figure 2-6. Fault Current Identification Label

NOTE: The 2020 NEC code change omits this field labeling requirement for one- and two-family dwelling units.

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Section 3: Operation

Functional Tests and Adjustments

CAUTION

Equipment damage. Perform functional tests in the exact order they are presented in the manual. Failure to do so could result in equipment damage.

(000121)

Following transfer switch installation and interconnection, inspect entire installation carefully. A competent, qualified electrician should inspect it. The installation should strictly comply with all applicable codes, standards, and regulations. When absolutely certain installation is correct, complete a functional test of the system.

IMPORTANT NOTE: Before proceeding with functional tests, read and verify all instructions and information in this section is understood. Also read information and instructions of labels and decals affixed to transfer switch. Note any options or accessories that might be installed and review their operation.

Manual Operation



DANGER

Electrocution. Do not manually transfer under load. Disconnect transfer switch from all power sources prior to manual transfer. Failure to do so will result in death or serious injury, and equipment damage.

(000132)

CAUTION

Equipment damage. Do not use excessive force while manually operating the transfer switch. Doing so could result in equipment damage.

(000122)

See [Figure 3-1](#). A manual handle (B) is shipped with the transfer switch manual. Manual operation must be verified BEFORE transfer switch is operated electrically. Proceed as follows to verify manual operation:

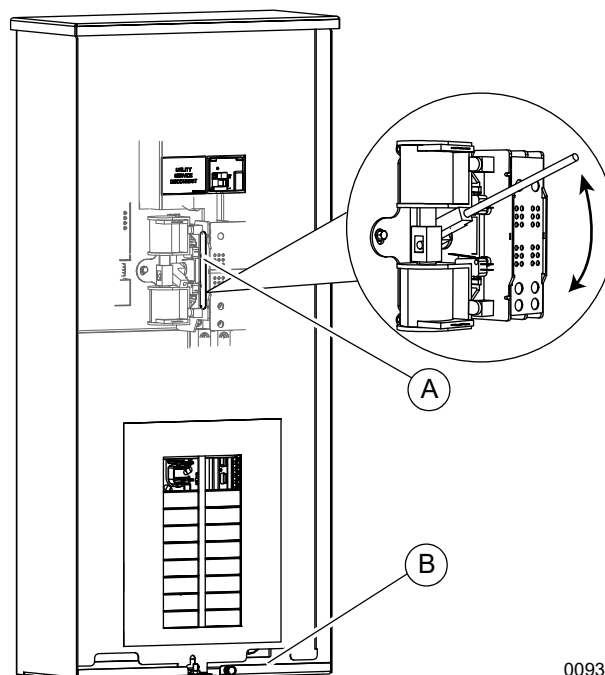
1. Verify generator is in OFF mode.
2. Turn off both utility (service disconnect circuit breaker) and emergency (generator main line circuit breaker) power supplies to transfer switch.
3. Note position of transfer mechanism main contacts (A) by observing the movable contact carrier arm. This can be viewed through the long narrow slot in the inside cover. The top of the movable contact carrier arm is yellow to be easily identified.

- Manual operation handle in UP position—LOAD terminals (T1, T2) are connected to utility terminals (N1, N2).
- Manual operation handle in DOWN position—LOAD terminals (T1, T2) are connected to EMERGENCY terminals (E1, E2).

Close to Utility Source Side

Before proceeding, verify position of transfer switch by observing position of manual operation handle in [Figure 3-1](#). If manual operation handle is UP, contacts are closed in utility (normal) position. No further action is required. If manual operation handle is DOWN, proceed with Step 1.

1. With manual operation handle inserted into movable contact carrier arm, move handle UP. Hold on to manual operation handle as it will move quickly after the center of travel.
2. Remove manual operating handle from movable contact carrier arm. Return manual operation handle to storage bracket.



009339

Figure 3-1. Manual Operation

Close to Generator Source Side

Before proceeding, verify position of transfer switch by observing the position of the manual operation handle in [Figure 3-1](#). If manual operation handle is DOWN, contacts are closed in generator (standby) position. No further action is required. If manual operation handle is UP, proceed with Step 1.

1. With manual operation handle inserted into movable contact carrier arm, move manual operation handle DOWN. Hold on to manual operation handle as it will move quickly after the center of travel.
2. Remove manual operating handle from movable contact carrier arm. Return manual operation handle to storage bracket.

Return to Utility Source Side


Proceed as follows to return to utility source side:

1. Manually actuate transfer switch to return manual operating handle to the UP position.
2. Remove manual operating handle from movable contact carrier arm. Return manual operation handle to storage bracket.

Voltage Checks


NOTE: Use the Digital Multimeter (DMM) LowZ low input impedance setting to collect accurate voltage measurements. LowZ eliminates the possibility of inaccurate ghost voltage readings, also known as phantom voltage or stray voltage readings. See DMM manufacturer’s literature for additional information.

Utility Voltage Checks



⚠ DANGER

Electrocution. High voltage is present at transfer switch and terminals. Contact with live terminals will result in death or serious injury. (000129)



⚠ DANGER

Electrocution. Turn utility supply OFF before working on utility connections of the transfer switch. Failure to do so will result in death or serious injury. (000123)

Proceed as follows to check utility voltage:

1. Turn on utility power supply to transfer switch using utility service disconnect circuit breaker.
2. With an accurate AC voltmeter, check for correct voltage. Measure across ATS terminal lugs N1 and N2; N1 to NEUTRAL and N2 to NEUTRAL.

Generator Voltage Checks



⚠ DANGER

Electrocution. High voltage is present at transfer switch and terminals. Contact with live terminals will result in death or serious injury. (000129)

Proceed as follows to check generator voltage:

1. Select MANUAL mode on generator panel. Generator will crank and start.
2. Allow generator to stabilize and warm up at no-load for at least five minutes.
3. Set generator's main circuit breaker (CB1) to ON (CLOSED).
4. Verify no-load, voltage, and frequency with an accurate AC voltmeter and frequency meter. Measure across ATS terminal lugs E1 to E2; E1 to NEUTRAL and E2 to NEUTRAL.

Frequency	60–62 Hz
Terminals E1 to E2	240–246 VAC
Terminals E1 to NEUTRAL	120–123 VAC
Terminals E2 to NEUTRAL	120–123 VAC

5. Turn off generator supply to transfer switch when generator supply voltage is correct and compatible with transfer switch ratings.
6. Set generator main circuit breaker (CB1) to OFF (OPEN).
7. Press OFF on generator panel to shut down generator.

IMPORTANT NOTE: DO NOT proceed until generator AC output voltage and frequency are correct and within stated limits. If no-load voltage is correct but no-load frequency is incorrect, engine governed speed may require adjustment. If no-load frequency is correct but voltage is not, voltage regulator may require adjustment.

Generator Tests Under Load

Proceed as follows to perform generator tests under load:

1. Set generator main line circuit breaker (MLCB) to OFF (OPEN).
2. Set utility service disconnect circuit breaker of the transfer switch to OFF (OPEN), and turn OFF (OPEN) all load circuit breakers.
3. Manually actuate transfer switch main contacts to emergency (STANDBY) position. See [Manual Operation](#).
4. Select MANUAL mode to start the generator. Allow engine to stabilize for a few minutes, and close lid.

5. Set generator MLCB to ON (CLOSED). Generator now powers all LOAD circuits. Verify generator operation under load as follows:
 - Turn on electrical loads to the full rated wattage/ampere capacity of generator. DO NOT OVERLOAD.
 - With maximum rated load applied, check voltage and frequency across transfer switch terminals E1 and E2. Voltage should be greater than 230 VAC (240 VAC system); frequency should be greater than 59 Hz.
 - Verify fuel pressure remains within acceptable parameters (see generator installation manual).
 - Allow generator to run under rated load for at least 30 minutes. With unit running, inspect for unusual noises, vibration, or overheating that might indicate a problem.
6. Set generator MLCB to OFF (OPEN) when test under load is complete.
7. Allow generator to run at no-load for several minutes. Then, shut down generator by pressing OFF.
8. Set main switch contacts to utility.

NOTE: See [Manual Operation](#). Handle and operating lever of transfer switch should be in down position.

9. Set utility service disconnect circuit breaker of transfer switch to ON (CLOSED).

System is now set for fully automatic operation.

Checking Automatic Operation

Proceed as follows to check system for correct automatic operation:

1. Verify generator is in OFF mode.
2. Set utility service disconnect circuit breaker of the transfer switch to OFF (OPEN).
3. Verify switch is de-energized.
4. Install front cover of transfer switch.
5. Set transfer switch utility service disconnect circuit breaker to ON (CLOSED).
6. Set generator MLCB to ON.
7. Select AUTO on generator control panel. System is now ready for automatic operation.
8. Set transfer switch utility service disconnect circuit breaker to OFF (OPEN).

With generator ready for automatic operation, engine should crank and start when utility source power is turned off after a five second delay (factory default setting). After starting, transfer switch should connect load circuits to standby side after a five second delay. Allow system to operate through entire automatic sequence of operation.

With generator running and loads powered by generator AC output, set transfer switch utility service disconnect circuit breaker to ON (CLOSED). The following will occur:

- After approximately 15 seconds, transfer switch will transfer loads to utility power source.
- Approximately one minute after transfer, generator should shut down.

With generator in AUTOMATIC mode, system is now set for fully automatic operation.

Installation Summary

1. Verify installation has been performed correctly as outlined by the manufacturer and that it meets all applicable laws and codes.
2. Test and verify correct operation of the system as outlined in the appropriate installation and owner's manuals.
3. Educate end-user on correct operation, maintenance, and service call procedures.

NOTE: The utility power circuit breaker in transfer switch must be turned OFF to simulate a utility outage. Shutting off main disconnect in a subpanel connected to transfer switch will NOT simulate an outage.

Shutting Generator Down While Under Load

IMPORTANT NOTE: To avoid equipment damage, follow these steps, in order, when shutting the generator down during utility outages. Shutdowns may be required during outages to perform routine maintenance or to conserve fuel.

To turn generator OFF (while running in AUTO and online):

1. Turn main utility disconnect off.
2. Turn generator MLCB (generator disconnect) to OFF (OPEN).
3. Run generator for approximately one minute to cool down.
4. Turn generator OFF.

To turn generator back ON:

1. Put generator into AUTO mode. Start generator and warm-up for a few minutes.
2. Set MLCB (generator disconnect) to ON (CLOSED).

The system now operates in AUTO mode. The main utility disconnect can be turned ON (CLOSED). To shut unit off, repeat this complete process.

Shutting Generator Down To Perform Maintenance

Proceed as follows to shut down generator for maintenance:

1. Press OFF button on controller.
2. Turn main utility disconnect OFF (OPEN).
3. Turn MLCB (generator disconnect) on generator to OFF (OPEN) and follow maintenance procedure(s).

To turn generator back ON:

1. Turn main utility disconnect ON (CLOSED).
2. Put generator into AUTO mode.
3. Set MLCB (generator disconnect) on generator to ON (CLOSED).

The system is now in AUTO mode.

Testing the SACM

A TEST pushbutton is provided on top of the SACM to test operation of load shed functions. The TEST button will work when ATS is in utility or generator position. Proceed as follows to test the SACM:

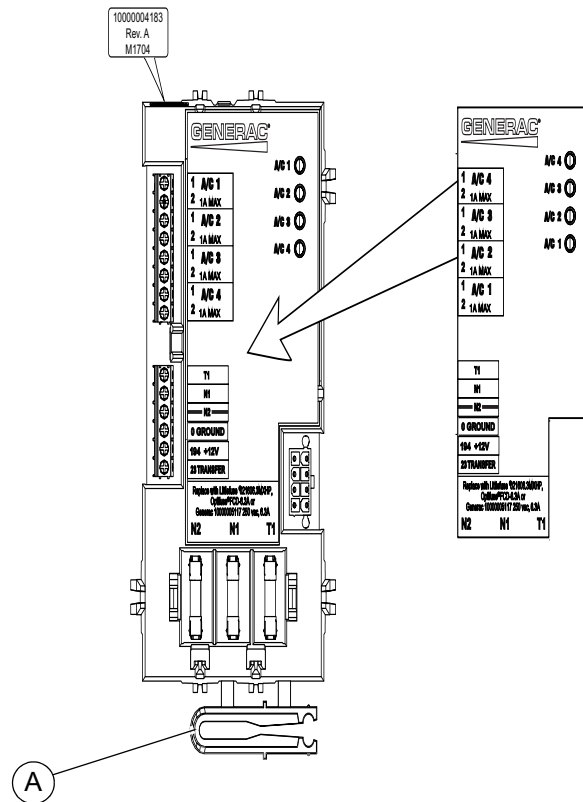
1. Turn on utility supply to ATS.
2. Verify managed loads are powered and all LEDs illuminate on SACM.
3. Press TEST button on the SACM.
4. Verify all of the connected loads to be “shed” are disabled.
5. After five minutes, verify A/C 1 is energized and Status LED A/C 1 is ON.
6. After another 15 seconds, verify A/C 2 is energized and Status LED A/C 2 is ON.
7. After another 15 seconds, verify Load A/C 3 is energized and Status LED Load A/C 3 is ON.
8. After another 15 seconds, verify A/C 4 is energized and Status LED A/C 4 is ON.

Testing The SMM

See SMM owner’s/installation manual for testing procedure.

Fuse Removal and Installation

See **Figure 3-2**. A fuse removal and installation tool (A) is included in the control housing.



005450

Figure 3-2. Fuse Removal and Installation Tool

If a fuse requires replacement, snap tool free with an appropriate tool such as diagonal pliers, and use it to replace fuse. The tool can be stored in the control housing retainer directly above the fuses, with the large thumb tab facing out.

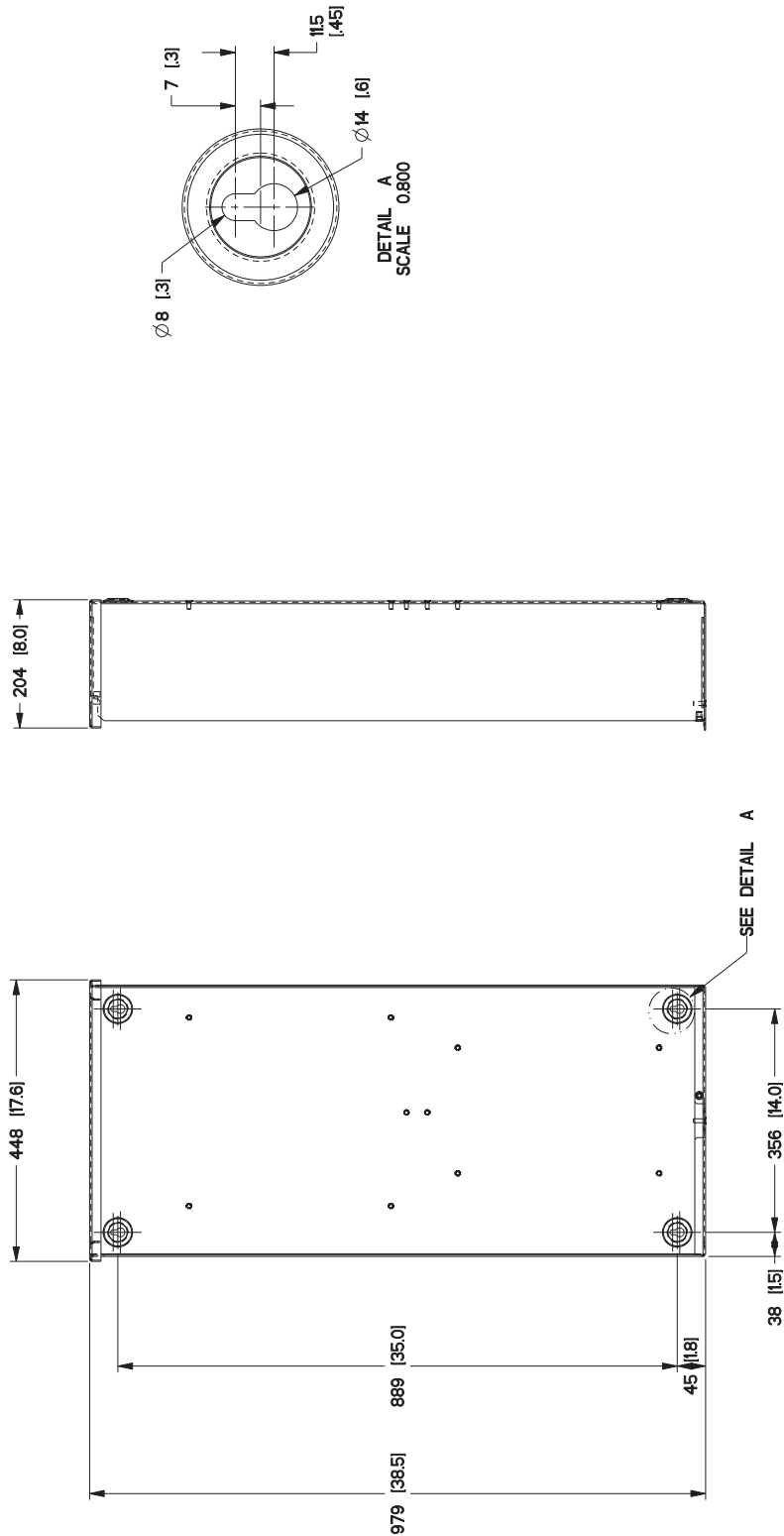
Use only Generac replacement fuses—part number 10000005117, rated 240 VAC, 6.3 Amps, 10,000 AIC.

Alternative fuses are Littelfuse® 021606.3MXHP or Optifuse® FCD-6.3.

Section 4: Drawings and Diagrams

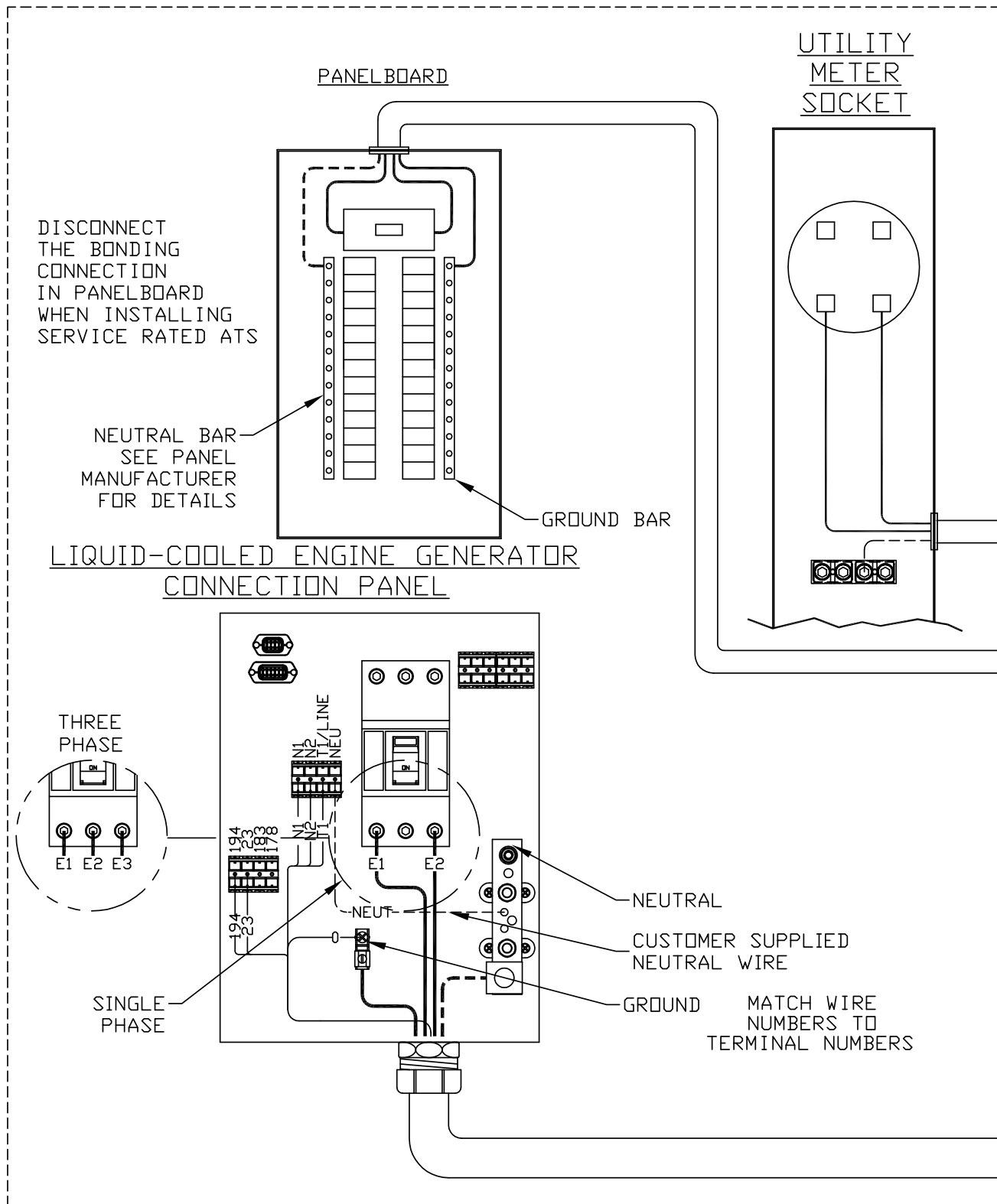
Installation Drawing

No. 10000047450

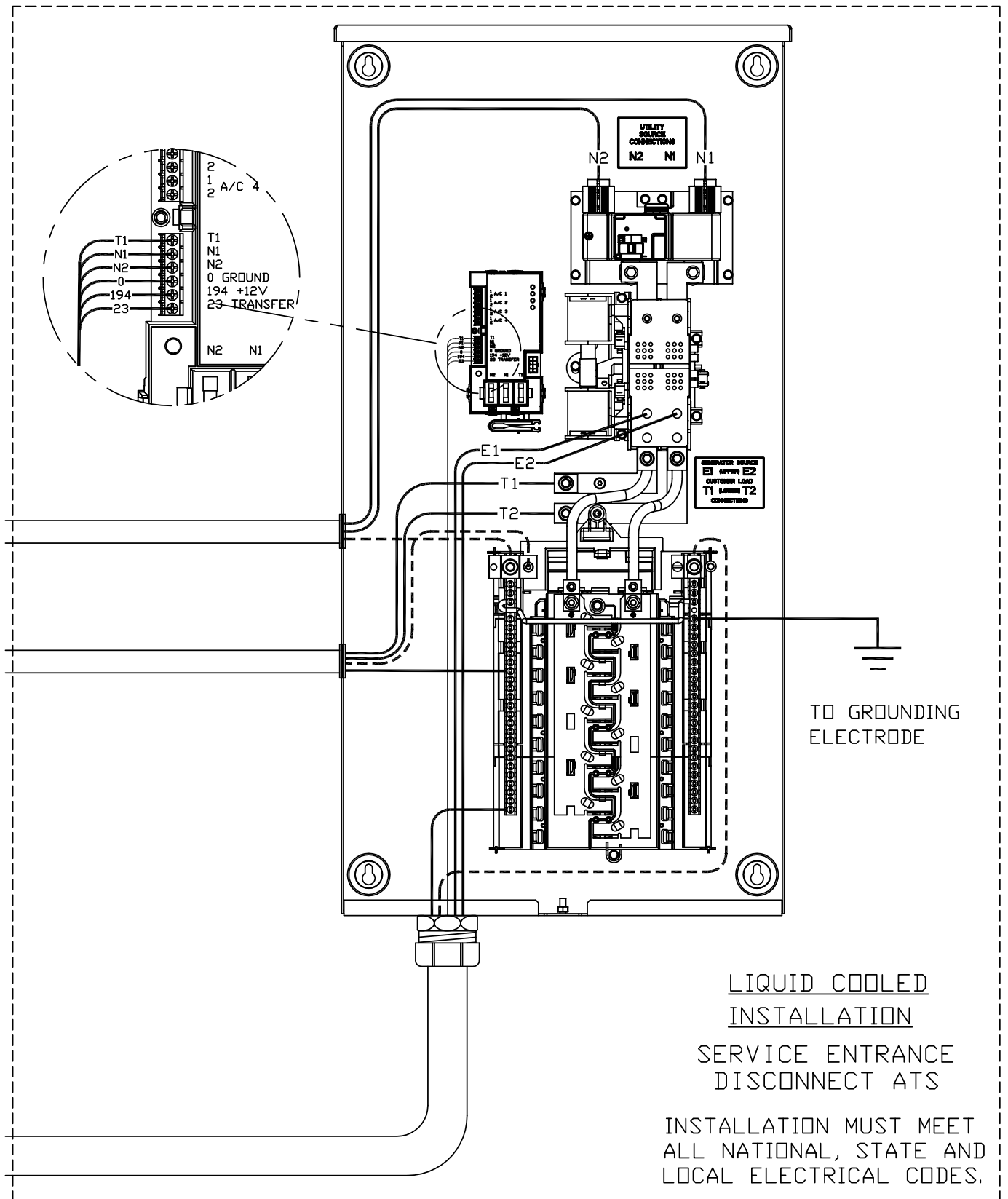


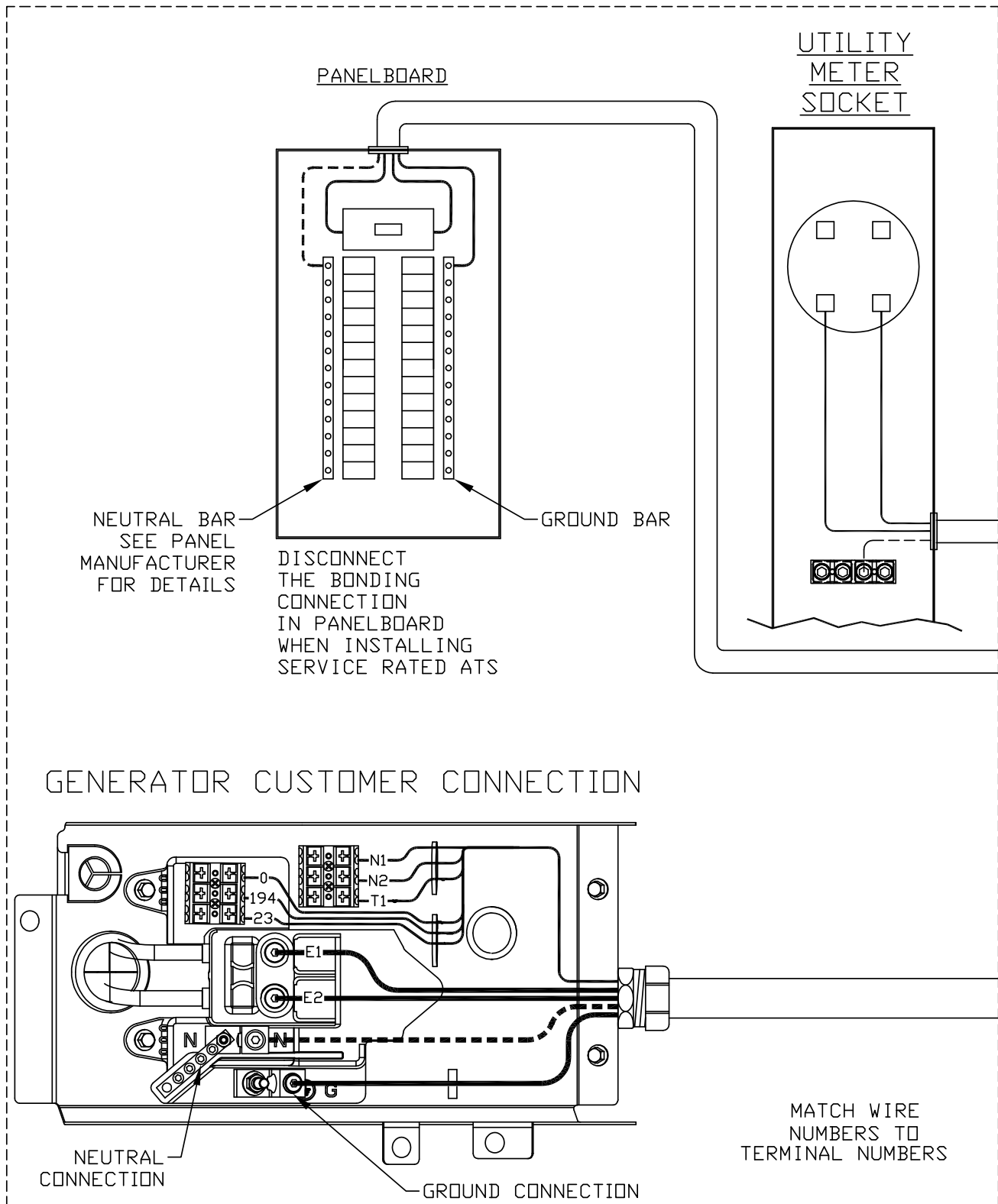
Interconnection Drawing

No. 10000047283—Page 1 of 4 (Liquid-Cooled Engine Generator)

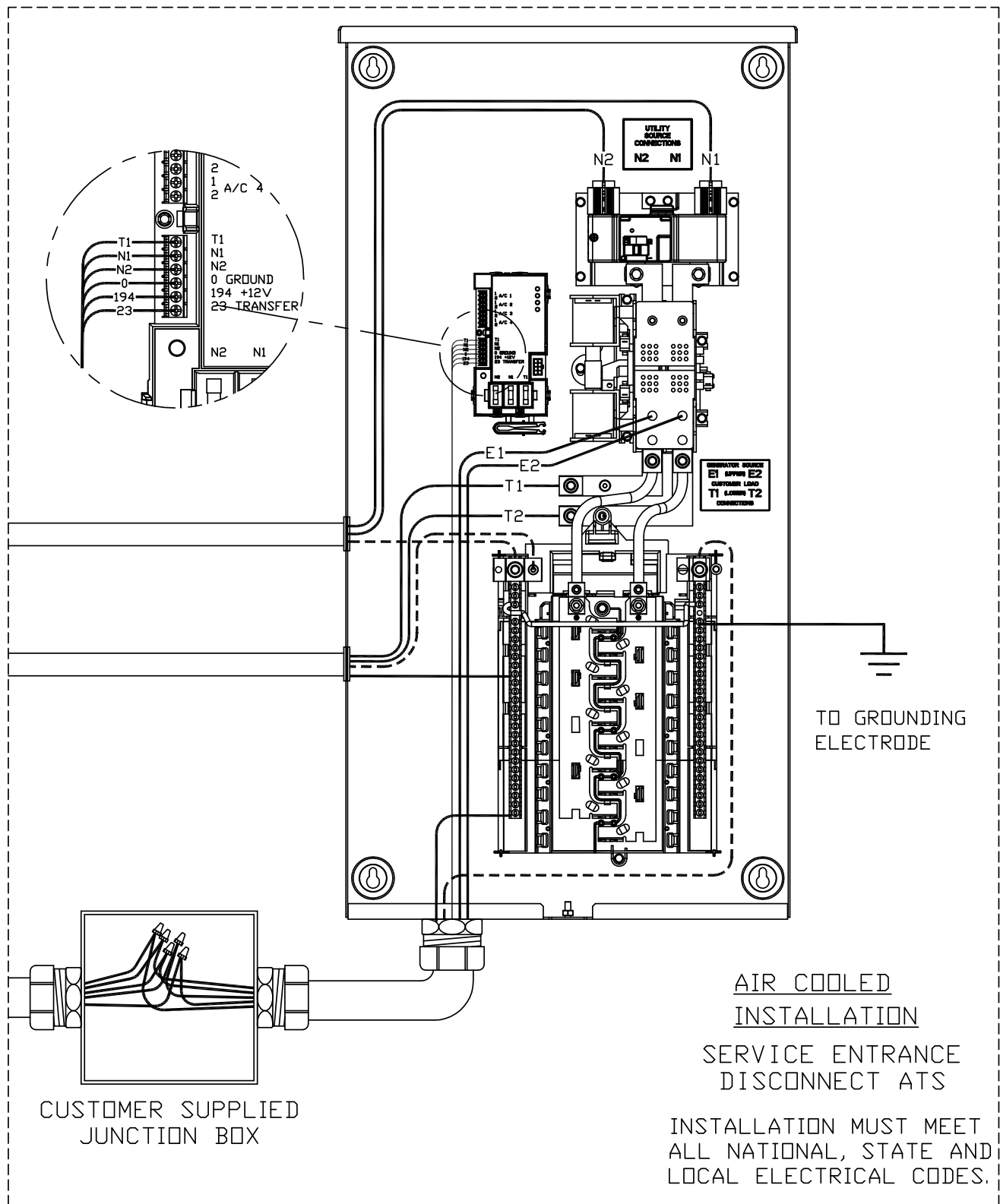


No. 1000047283—Page 2 of 4 (Liquid-Cooled Engine Generator)





No. 1000047283—Page 4 of 4 (Air-Cooled Engine Generator)



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GENERAC®

Generac Power Systems, Inc.
S45 W29290 Hwy. 59
Waukesha, WI 53189
1-888-GENERAC (1-888-436-3722)
www.generac.com